

What is claimed is:

1. A washing method of a drum type washing machine, wherein a falling washing is performed such that the laundry in a drum is washed by falling by a gravity through continuous rotation of the drum, or a reversing washing is performed such that the laundry is washed by rotating the drum forward or backward for a short predetermined time.

2. The method of claim 1, wherein the amount of the laundry is detected, and based on the detected amount of the laundry, the falling washing or the reversing washing is automatically performed.

3. The method of claim 1, wherein when the drum makes a reverse turn, the size and the direction of force of the motor which drives the drum are reversed having a continuous predetermined decreased section for a certain time.

4. The method of claim 1, wherein there is a duty ratio decreased section in the reversing wash mode so that when a constant voltage is applied to a motor, the drum is rotated forward, and, after a certain time, a speed of forward rotation of the drum is reduced

5. The method of claim 4, wherein the duty ratio decreased section is subdivided into a decrease section having multilevel according to a wash mode selected by a user.

6. The method of claim 4, when the duty ratio decreased section is

over, a motor is driven by applying an inverse voltage thereto, and, right after the stop of the motor, the motor rotates the drum backward.

7. The method of claim 6, wherein the duty ratio changed pattern of
5 the motor has an exponent-functional characteristic.

8. The method of claim 6, wherein according to the exponent-
functional duty ratio changed pattern of the motor, the duty ratio is
increased/decreased, and the size and the direction of the force of the motor are
10 reversed to rotate the drum.

9. The method of claim 1, wherein, in the reversing washing, a
heater for heating washing water is turned off.

15 10. The method of claim 1, wherein, in the falling washing, a heater
for heating washing water is turned on.

11. The method of claim 1, wherein, in the reversing washing, a
heater for heating washing water is turned off, and, in the falling washing, a heater
20 is turned on to heat washing water.

12. The method of claim 1, wherein it is determined whether a user
selects both reversing and falling wash modes, or selects only a falling wash mode,
and according to the selection of the user, a washing operation is performed.

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13. The method of claim 12, further comprising:

rotating a drum forward and backward in a reversing wash mode for a certain time when the wash mode is reversing and falling wash modes;

after operating the drum in the reversing wash mode, rotating the drum in one direction in a falling wash mode;

after operating the drum in the falling wash mode for a certain time, performing washing with repeating the abovementioned operations until a preset washing completing time.

14. The method of claim 12, further comprising if a user selects a falling wash mode, performing a falling washing until a preset washing completing time by rotating the drum in one direction.

15. The method of claim 12, wherein the falling washing mode is that the laundry ascends and falls in a degree through a lifter by continuously rotating the drum in one direction.

16. The method of claim 15, wherein if a user selects reversing and falling wash modes, a reversing washing is performed for a certain time, and then, a falling washing is performed for a certain time, and repeatedly performing the falling washing and reversing washing until a preset washing completing time.

17. The method of claim 12, wherein there is a duty ratio decreased section in the reversing wash mode so that when a constant voltage is applied to a motor, the drum is rotated forward, and, after a certain time, a speed of forward

rotation of the drum is reduced

18. The method of claim 17, wherein, when the duty ratio decreased section is over, a motor is driven by applying an inverse voltage thereto, and, right
5 after the stop of the motor, the motor rotates the drum backward.

19. The method of claim 18, wherein the duty ratio changed pattern of the motor has an exponent-functional characteristic.

10 20. The method of claim 12, wherein, in the reversing washing, a heater for heating washing water is turned off, and, in the falling washing, a heater is turned on to heat washing water.